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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,577	08/05/2003	Michael Fripp	1391-41100 DVF	6984
23505	7590	05/03/2005		EXAMINER
CONLEY ROSE, P.C. P. O. BOX 3267 HOUSTON, TX 77253-3267			JENKINS, KIMBERLY YVETTE	
			ART UNIT	PAPER NUMBER
			2635	

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/634,577	FRIPP ET AL.
	Examiner Kimberly Jenkins	Art Unit 2635

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 5 August 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 15-24 is/are allowed.
- 6) Claim(s) 1-14 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 05 August 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>16 December 2003</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated over Orban et al. (US 5448227).

Regarding claims 1 and 7, Orban, who teaches a method and apparatus for making near-bit measurements-while-drilling (MWD), expressively discloses a pressure pulser comprising: a first rotatable body 14 (motor assembly) in fluid communication with a flowing fluid; a second body 30 (shaft) coupled to said first body 14 (col. 8, line 62-col. 9, line 14). Orban discloses an electro-active fluid (mud) that flows to the turbine 26 to generate electrical power to the system (col. 8, lines 8-10). Additionally, Orban discloses a means of applying a field by way of an electromagnetic coil (col. 8, lines 48-61).

Regarding claims 2 and 10, Orban discloses the pulser wherein said first body is a mud motor 14 (col. 3, lines 29-35).

Regarding claims 3 and 11, Orban disclose the pulser wherein said second body comprises a shaft 30 and said means for applying a field includes an electromagnetic coil (col. 8, lines 49-67 and col. 10, lines 21-24).

Regarding claims 4 and 12, Orban discloses the rotor as circulating (rotating) within the motor assembly 14 (col. 6, lines 58-64). Orban inherently discloses the rotor as circulating the electro-active fluid as flowing through a flow line.

Regarding claims 5 and 13, Orban discloses the pulser comprising a field-generating valve disposed on the flow-line, wherein said valve has a blocked position where a field is applied to the flow-line (col. 8, lines 1-17).

Regarding claim 6, Orban discloses the pulser wherein the pulser is integrated into a drill string 9 (col. 6, lines 51-67).

Regarding claim 8, Orban discloses the field is applied by applying a current to an electromagnetic coil (col. 8, lines 48-54).

Regarding claim 9, Orban discloses the field is applied by a magnetic circuit (col. 23, lines 12-15).

Regarding claim 14, Orban discloses the first and second bodies 14 and 30 (respectively) are integrated into a drill string 9 (col. 6, lines 51-68 and Figs. 1 and 3A).

Allowable Subject Matter

3. Claims 15-24 are allowed, because prior art of record does not expressively disclose the following limitations of independent claims 15 and 16: a magnet proximate to said chamber of electro-active fluid and switchable between first and second states so as to apply a field to the electro-active fluid in the first state and not apply a field to the electro-active fluid in the second state. Dependent claims 17-24 are allowable by default of being dependent upon an allowable claim.

Conclusion

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Bannister (US 3227228) discloses a bore-hole drilling apparatus that utilizes a pressure pulser that utilizes the fluid as a means to communicate via the flowline.
- Tubel et al. (US 6021095) discloses a method of remote controlling of a well-bore end device via communications of an electro-active fluid (water) of a pressure pulser.
- Juergens et al. (US 5294923) discloses a method an apparatus for relaying down-hole data to the surface.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Jenkins whose telephone number is 571.272.3064. The examiner can normally be reached from Monday – Friday between the hours of 7am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 571.272.3068. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimberly Jenkins
Examiner
Art Unit 2635
1 April 2005

KYJ

MICHAEL HORABIK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

